	Application No.	Applicant(s)	
Notice of Allowability	09/988,462	KOZIEL ET AL.	
	Examiner	Art Unit	
	Elizabeth F. McElwain	1638	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 5) or other appropriate commur RIGHTS. This application is su	his application. If not included ication will be mailed in due course. <b>Th</b>	<b>IIS</b> tiati∨e
1. This communication is responsive to <u>papers filed Novem</u>			
2. ☑ The allowed claim(s) is/are <u>95-104, 131 and 132 (renum</u>			
<ol> <li>The drawings filed on <u>20 November 2001</u> are accepted I</li> <li>☐ Acknowledgment is made of a claim for foreign priority</li> </ol>	•	(f).	
a) All b) Some* c) None of the:		· ·	
<ol> <li>Certified copies of the priority documents had</li> </ol>	ve been received.		
<ol><li>Certified copies of the priority documents had</li></ol>	···		
3. Copies of the certified copies of the priority of	documents have been received	in this national stage application from th	ne
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
<ul> <li>Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specifical (a)  The translation of the foreign language provisiona</li> <li>Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application</li> </ul>	ication or in an Application Data I application has been received. under 35 U.S.C. §§ 120 and/or	Sheet. 37 CFR 1.78.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of	of this application. THIS THRE	E-MONTH PERIOD IS NOT EXTENDA	BLE.
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g</li> </ol>	mitted. Note the attached EXANives reason(s) why the oath or o	INER'S AMENDMENT or NOTICE OF leclaration is deficient.	
<ul> <li>B. ☐ CORRECTED DRAWINGS ( as "replacement sheets") m</li> <li>(a) ☐ including changes required by the Notice of Draftspe</li> <li>1) ☐ hereto or 2) ☐ to Paper No</li> </ul>		PTO-948) attached	
(b) $\square$ including changes required by the proposed drawing		•	
(c) $\square$ including changes required by the attached Examine	er's Amendment / Comment or i	the Office action of Paper No	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the margin according to 37 CFR	drawings in the front (not the back) of 1.121(d).	
9. ☐ DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENT FOR	posit of BIOLOGICAL MATER THE DEPOSIT OF BIOLOGICA	RIAL must be submitted. Note the AL MATERIAL.	
Attachment(s)			
I ☐ Notice of References Cited (PTO-892)	5☐ Notice of Inform	nal Patent Application (PTO-152)	
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Sumi	mary (PTO-413), Paper No. 11/5/03	
B図 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No. <u>%/s/₀2</u> , 2/(៧₀2 , 2/៧ /०३ , २/२९ /०३ , ९/೭೭/०३	<sup>08),</sup> 7⊠ Examiner's Am	endment/Comment	
Examiner's Comment Regarding Requirement for Deposit		tement of Reasons for Allowance	
of Biological Material	9 <u>□</u> Other .	Elizabeth F. McElwain Primary Examiner Art Unit: 1638	

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**EXAMINER'S AMENDMENT** 

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1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

John Scheibeler on November 7, 2003.

The application has been amended as follows:

99. (currently amended) A method of controlling [insect pests] European corn borer infestation

in maize, comprising [contacting the insect pests with the transgenic plant] growing maize

plants according to claim 98 that express the Bacillus thuringiensis insecticidal protein in an

amount that controls the population of European corn borer below the economic threshold for

maize.

100. (currently amended) The method of claim 99, wherein the [insect pests are lepidopteran

insect pests] economic threshold is 0.5 eggmass/plant.

101. (currently amended) The method of claim [100] 99, wherein the [insect pests are

European corn borers] economic threshold is 10 larvae/plant.

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2. The following is an examiner's statement of reasons for allowance: The claims are free of the prior art given that that the prior art does not teach or suggest a transgenic maize seed comprising a synthetic DNA sequence that encodes a *Bacillus thuringiensis* insecticidal protein, wherein the synthetic DNA sequence comprises the codons recited in the claims in sufficient number that the synthetic DNA has at least about 60% G+C content. The prior art also does not teach or suggest a maize plant grown from said seed or a method of controlling European corn borer comprising growing said plants.

Claims 99-101 have been amended to recite that the population of European corn borer is kept below the economic threshold, wherein the economic threshold may be 0.5 eggmass/plant or 10 larvae/plant. Therefore, the claims are drawn to a method of controlling a population of European corn borer by growing maize plants that express *Bacillus thuringiensis* insecticidal protein at a level that is sufficient to keep the population of surviving insects low enough that there is not a significant loss in yield. Support for this amendment can be found in the specification at page 16, the second full paragraph, at least.

Applicants have filed Terminal Disclaimers for U.S. Patent No. 6,075,185 and U.S. Patent No. 6,320,100 to obviate the need for obviousness double-patenting rejections.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth F. McElwain whose telephone number is 703-308-1794. The examiner can normally be reached on increased flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on 703-306-3218. The fax phone number for the organization where this application or proceeding is assigned is 703-308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Elizabeth F. McElwain
Primary Examiner
Art Unit 1638

**EFM**